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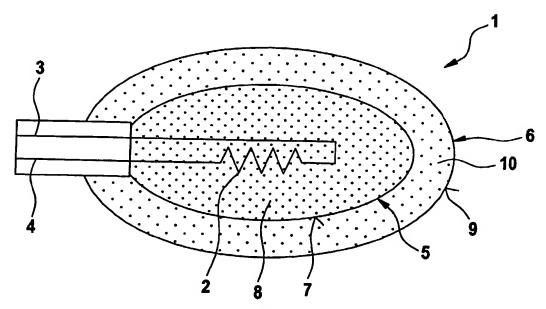
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(54) Title: LAMP WITH INFRARED REFLECTING COATING



(57) Abstract: The invention relates to a lamp (1) within a vehicle headlamp for a night-sight application, with a bulb (5, 6) that generates visible light and infrared light. In accordance with the invention, the bulb (5) is equipped with a coating (8) that reflects middle infrared radiation and is transparent to near infrared radiation. The output efficiency of the lamp (1) is thereby increased, in particular in the near infrared spectral range.

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

	INTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
x	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 11, 26 December 1995 (1995-12-26) -& JP 07 220692 A (TOSHIBA LIGHTING & TECHNOL CORP), 18 August 1995 (1995-08-18)	1,2,8	
Y	abstract paragraph [0038] - paragraph [0049]; figures 3,5B	3	
x	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 01, 29 January 1999 (1999-01-29) -& JP 10 268129 A (TOSHIBA LIGHTING & TECHNOL CORP), 9 October 1998 (1998-10-09) abstract; figure 3	1,8	
	-/		

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"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of mailing of the international search report
09/09/2004
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Lang, T

INTERNATIONAL SEARCH REPORT

Inter 1al Application No

	etion) DOCUMENTS CON ED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
Х	EP 0 418 784 A (HITACHI LTD) 27 March 1991 (1991-03-27) page 3, line 47 - page 5, column 32; figures 3,4; tables 1,2 abstract; figure 1			
Y	US 4 734 614 A (KUUS GIJSBERT) 29 March 1988 (1988-03-29) abstract; figures 1,2; table	3		
A	WO 00/75957 A (PHILIPS CORP INTELLECTUAL PTY; KONINKL PHILIPS ELECTRONICS NV (NL)) 14 December 2000 (2000-12-14) page 11, line 3 - line 8	2,3		
A	US 4 774 396 A (KEEN JR RALPH S ET AL) 27 September 1988 (1988-09-27) column 1, line 33 - line 68			
	••			
		·		
. 0				

INTERNATIONAL SEARCH REPORT

termation on patent family members

	<u> </u>		don on patent landly file			IB	03/05599
Patent document cited in search report					Patent family member(s)		Publication date
JP 6	7220692	Α	18-08-1995	JP '	3438289	9 B2	18-08-2003
JP 1	0268129	Α	09-10-1998	NONE			
EP 6)418784	Α	27-03-1991	JP EP	3105849 0418784		02-05-1991 27-03-1991
US 4	734614	A	29-03-1988	NL BE CA CN DE FR GB HU IT JP JP	8501674 904893 1259097 86104344 3617638 2583219 2176651 41160 1190045 2029546 7062998 61285652	3 A1 7 A1 4 A , B 3 A1 9 A1 1 A , B 0 A2 5 B 5 C 8 B	02-01-1987 09-12-1986 05-09-1989 25-02-1987 11-12-1986 12-12-1986 31-12-1986 30-03-1987 10-02-1988 19-03-1996 05-07-1995 16-12-1986
WO 0	075957	. A	14-12-2000	CN WO EP JP US	1316097 0075957 1103064 2003501793 6404112	A1 A1 T	03-10-2001 14-12-2000 30-05-2001 14-01-2003 11-06-2002
US 4	774396	Α	27-09-1988	NONE		~~~~~	

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al Application No